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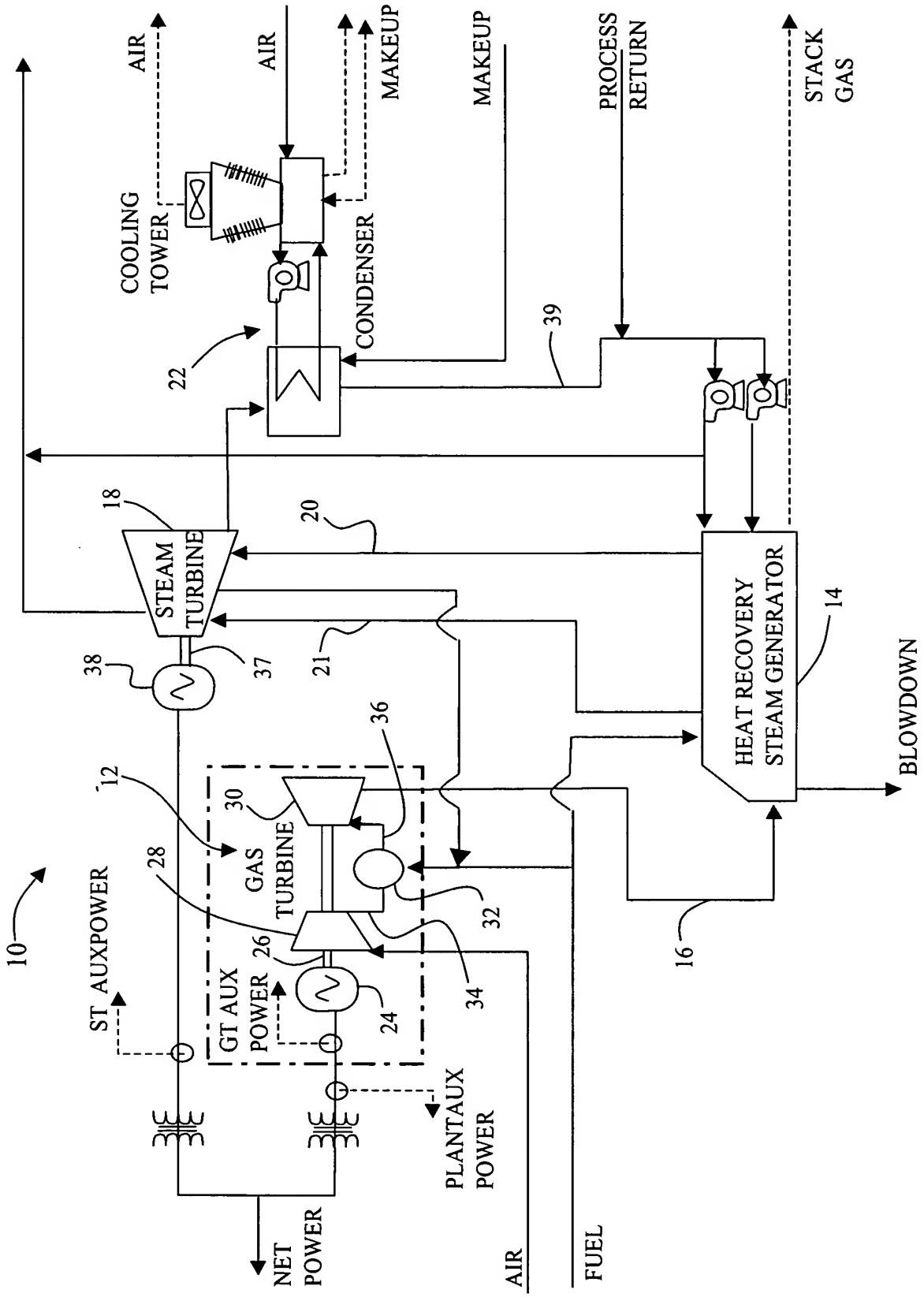
AIR
AIR
MAKEUP
MAKEUP
PROCESS RETURN
STACK GAS
COOLING TOWER
CONDENSER
22
39
18
STEAM TURBINE
20
21
38
37
36
12
30
GAS TURBINE
28
32
26
24
34
HEAT RECOVERY STEAM GENERATOR
14
16
BLOWDOWN
10
ST AUXPOWER
GT AUX POWER
PLANTAUX POWER
NET POWER
AIR
FUEL

FIG. 1

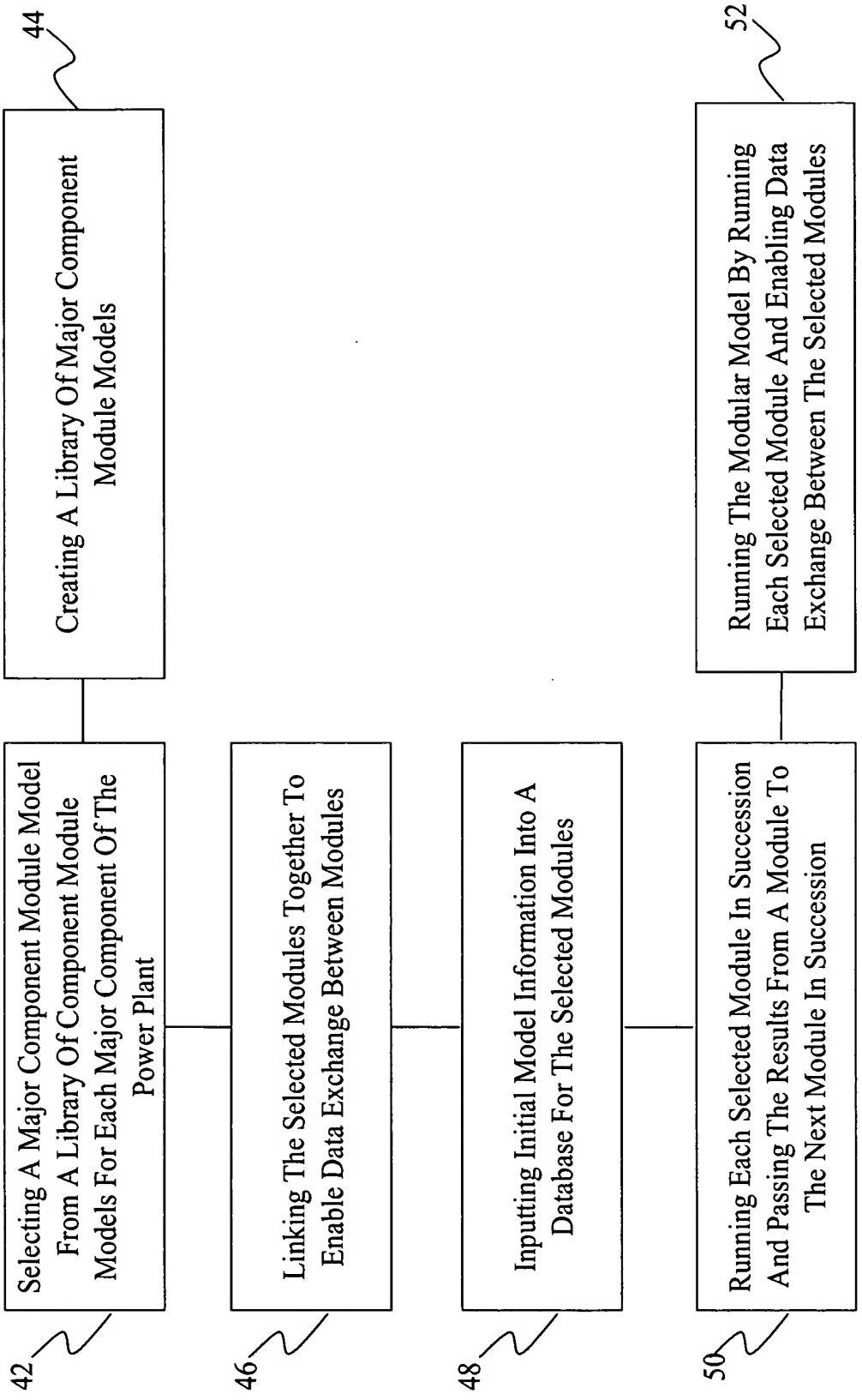
40
Creating A Library Of Major Component Module Models
44
Selecting A Major Component Module Model From A Library Of Component Module Models For Each Major Component Of The Power Plant
42
Linking The Selected Modules Together To Enable Data Exchange Between Modules
46
Inputting Initial Model Information Into A Database For The Selected Modules
48
Running Each Selected Module In Succession And Passing The Results From A Module To The Next Module In Succession
50
Running The Modular Model By Running Each Selected Module And Enabling Data Exchange Between The Selected Modules
52

FIG. 2

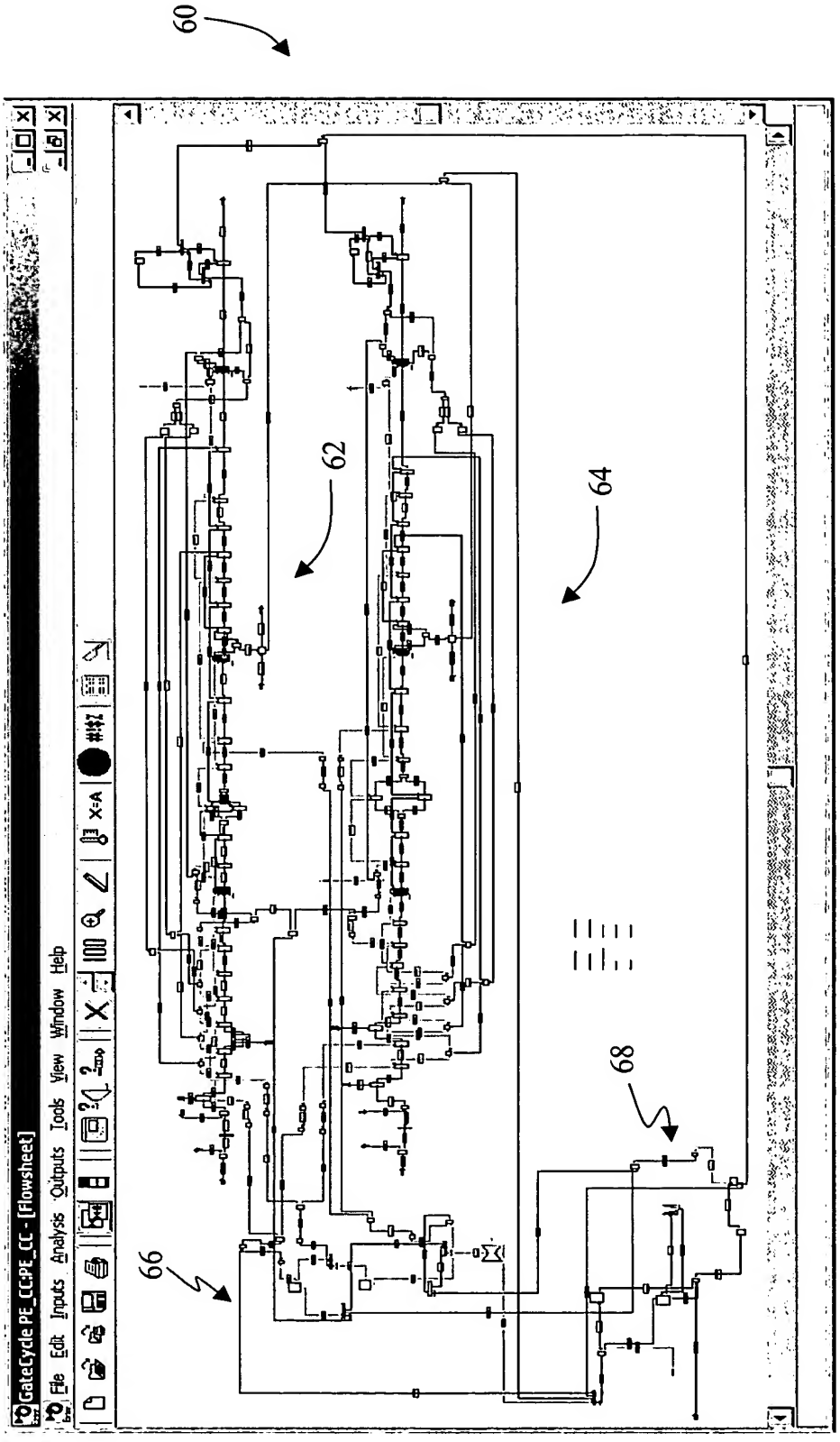
60
62
64
66
68
GateCycle PE_CCPE_CC - [Flowsheet]
File Edit Inputs Analysis Outputs Tools View Window Help

FIG. 3

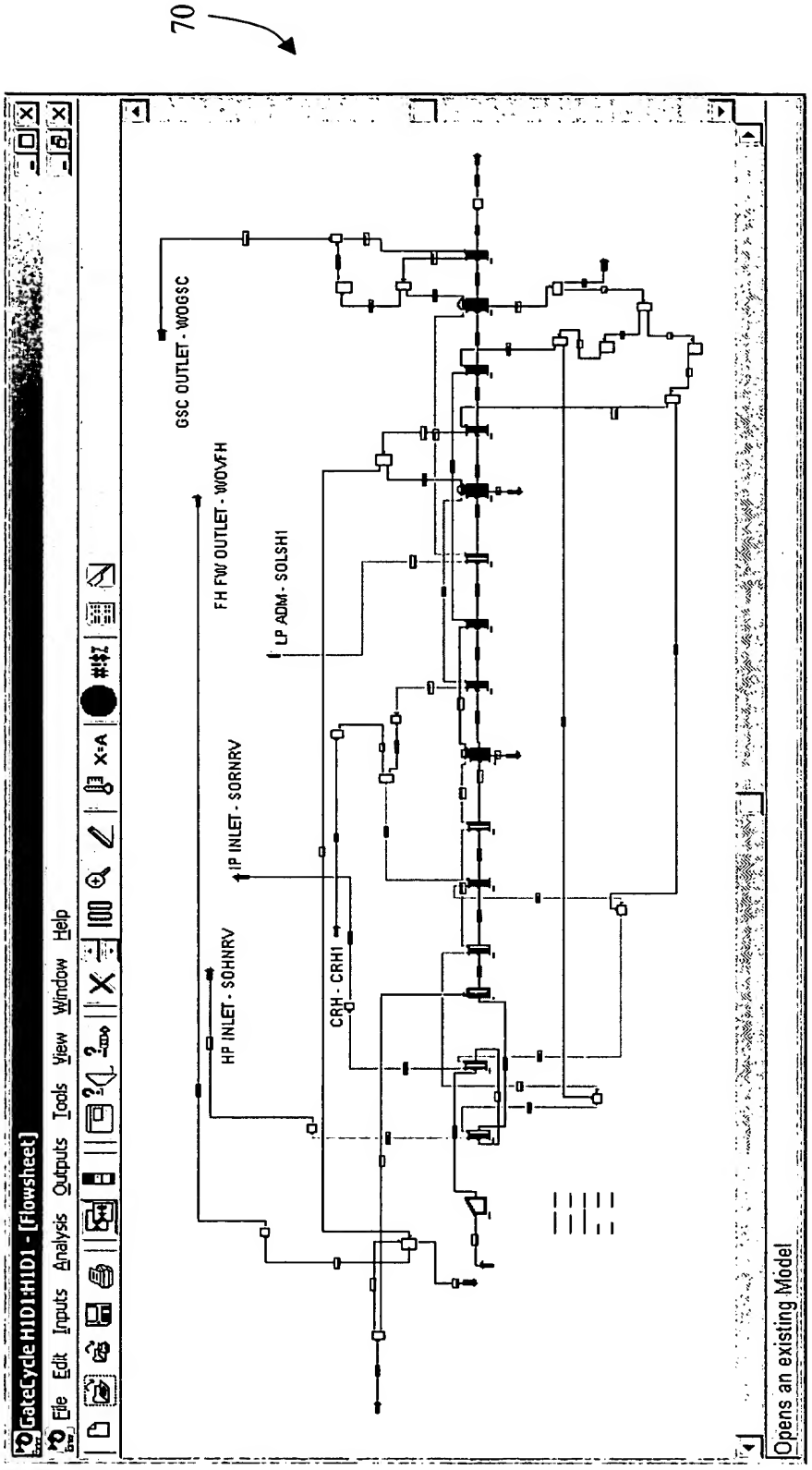
70
GateCycle H1D1:H1D1 - [Flowsheet]
File Edit Inputs Analysis Outputs Tools View Window Help
GSC OUTLET - WOGSC
F.H FW OUTLET - WOVFH
LP ADM - SOLSH1
IP INLET - SORNRV
HP INLET - SOHNRV
CRH - CRH1
Opens an existing Model

FIG. 4

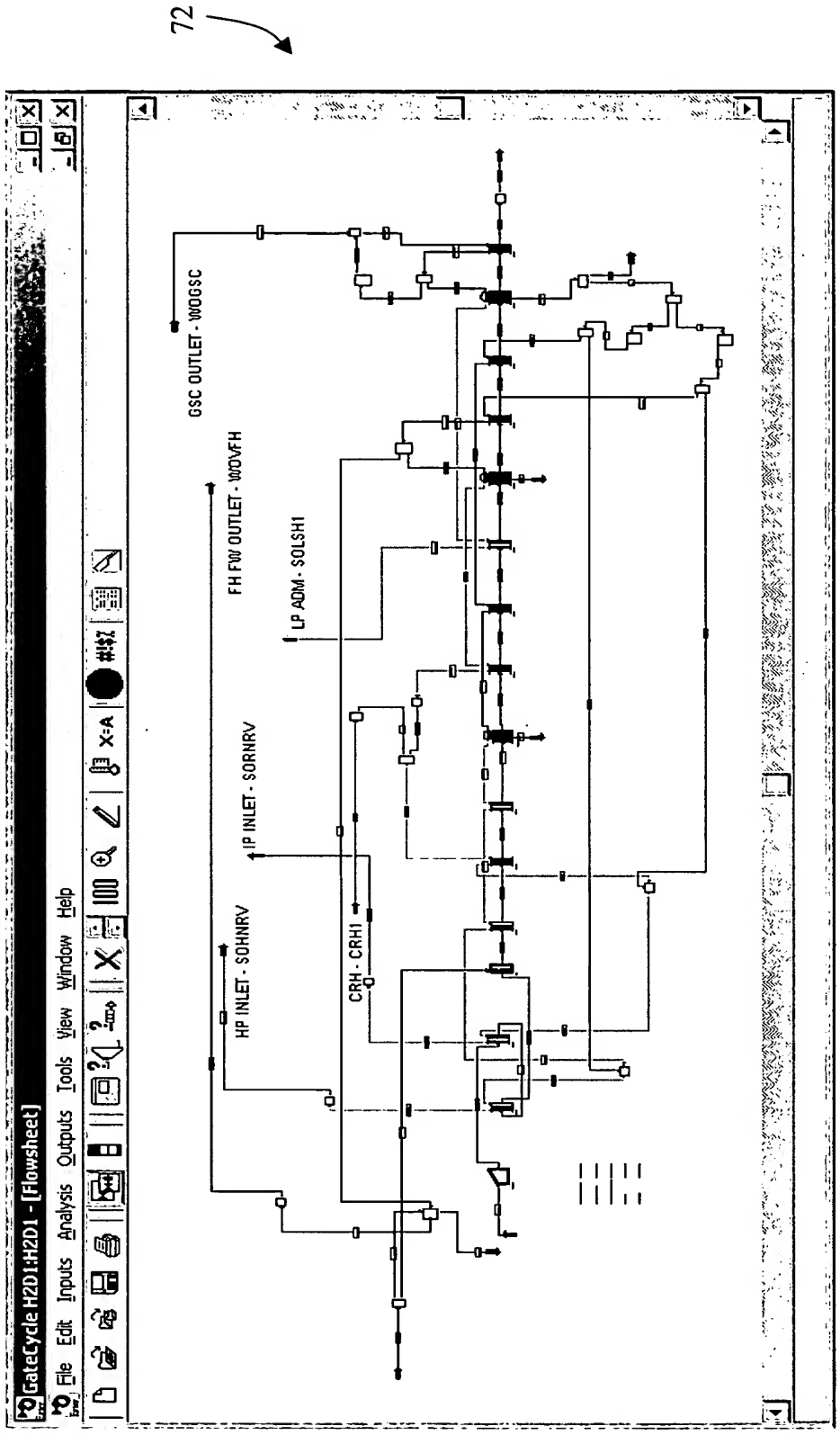
72
GateCycle H2D1:H2D1 - [Flowsheet]
File Edit Inputs Analysis Outputs Tools View Window Help
GSC OUTLET - WOGSC
FH FW OUTLET - WOVFH
LP ADM - SOLSH1
IP INLET - SORNRV
HP INLET - SOHNRV
CRH - CRH1

FIG. 5

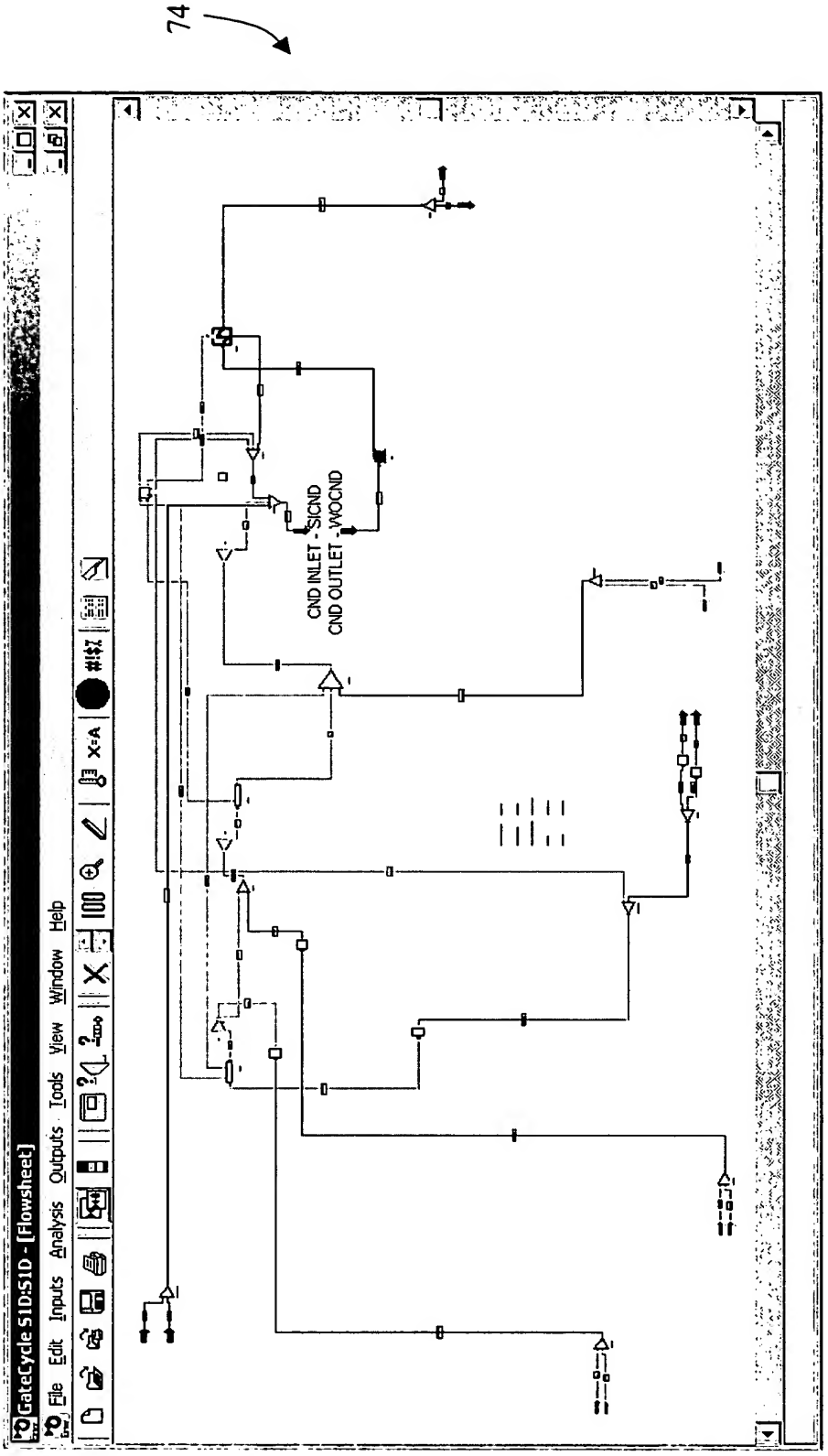
74
GateCycle S1D:S1D - [Flowsheet]
File Edit Inputs Analysis Outputs Tools View Window Help
CND INLET - SICND
CND OUTLET - WOCND

FIG. 6

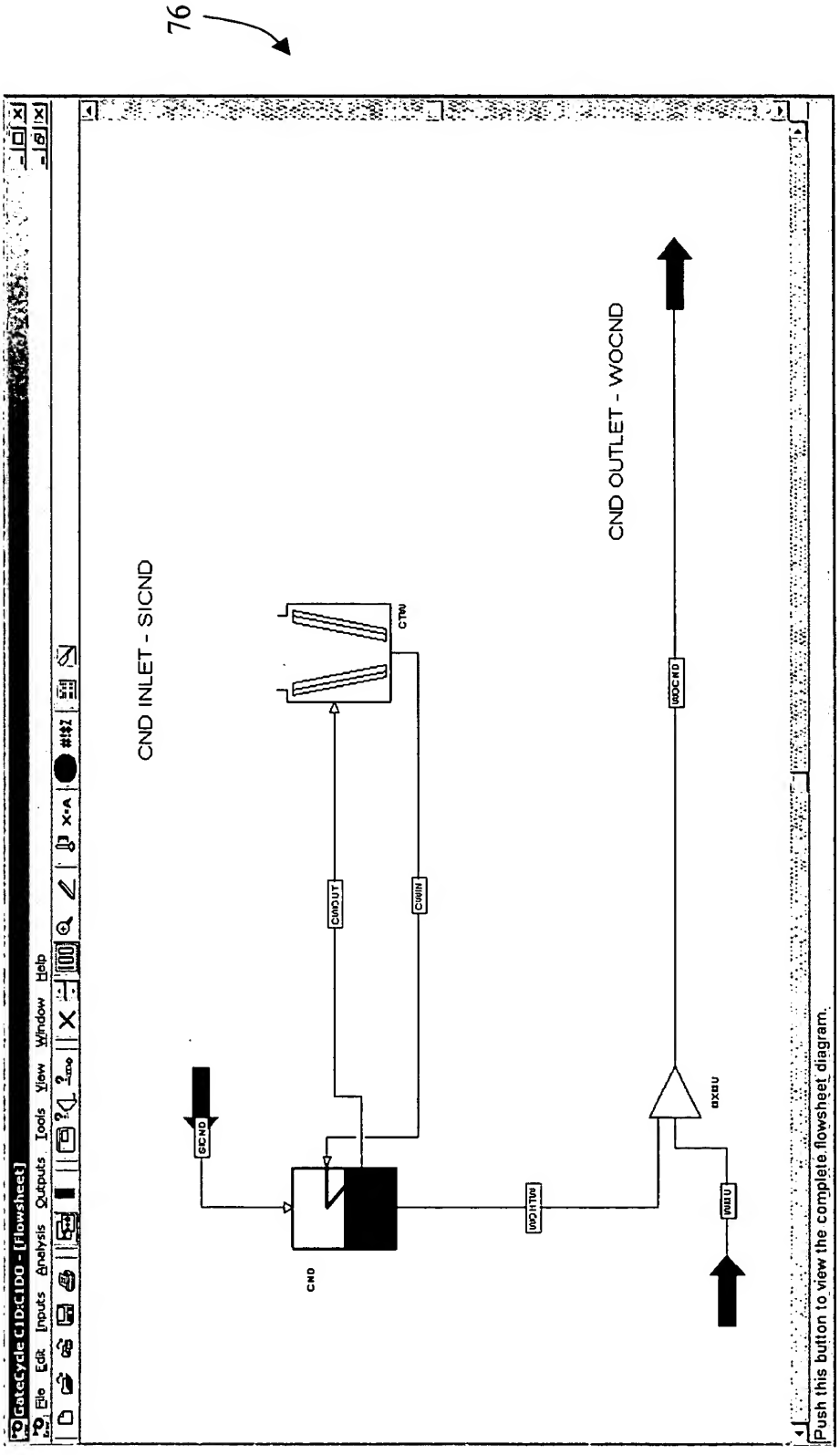
76
GateCycle C1DC1D0 - [Flowsheet]
File Edit Inputs Analysis Outputs Tools View Window Help
CND INLET - SICND
CND OUTLET - WOCND
SICND
CWOUT
CWIN
CTW
WOCND
MULTICOM
CND
GXBU
MWU
Push this button to view the complete flowsheet diagram.

FIG. 7

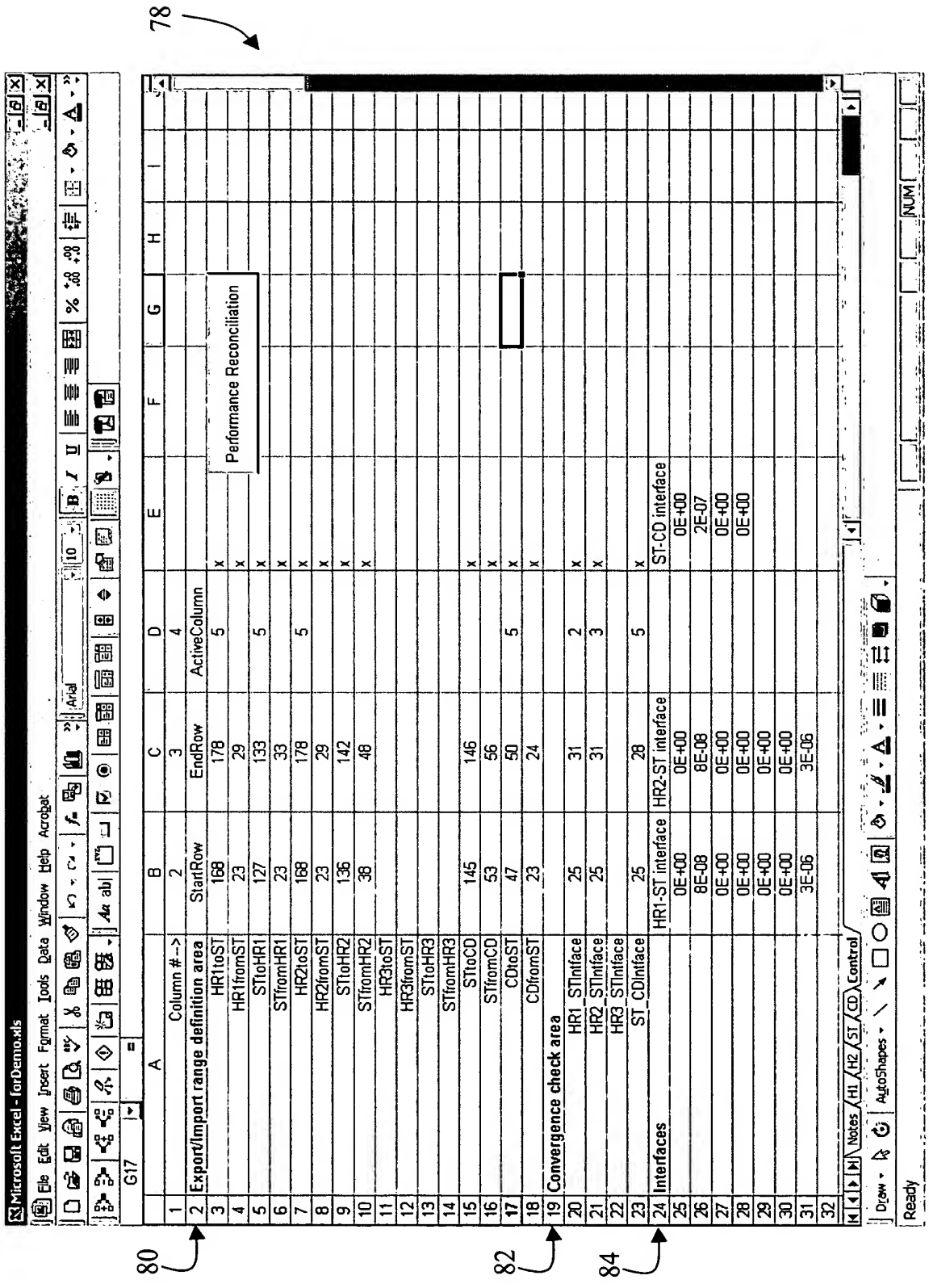

FIG. 8

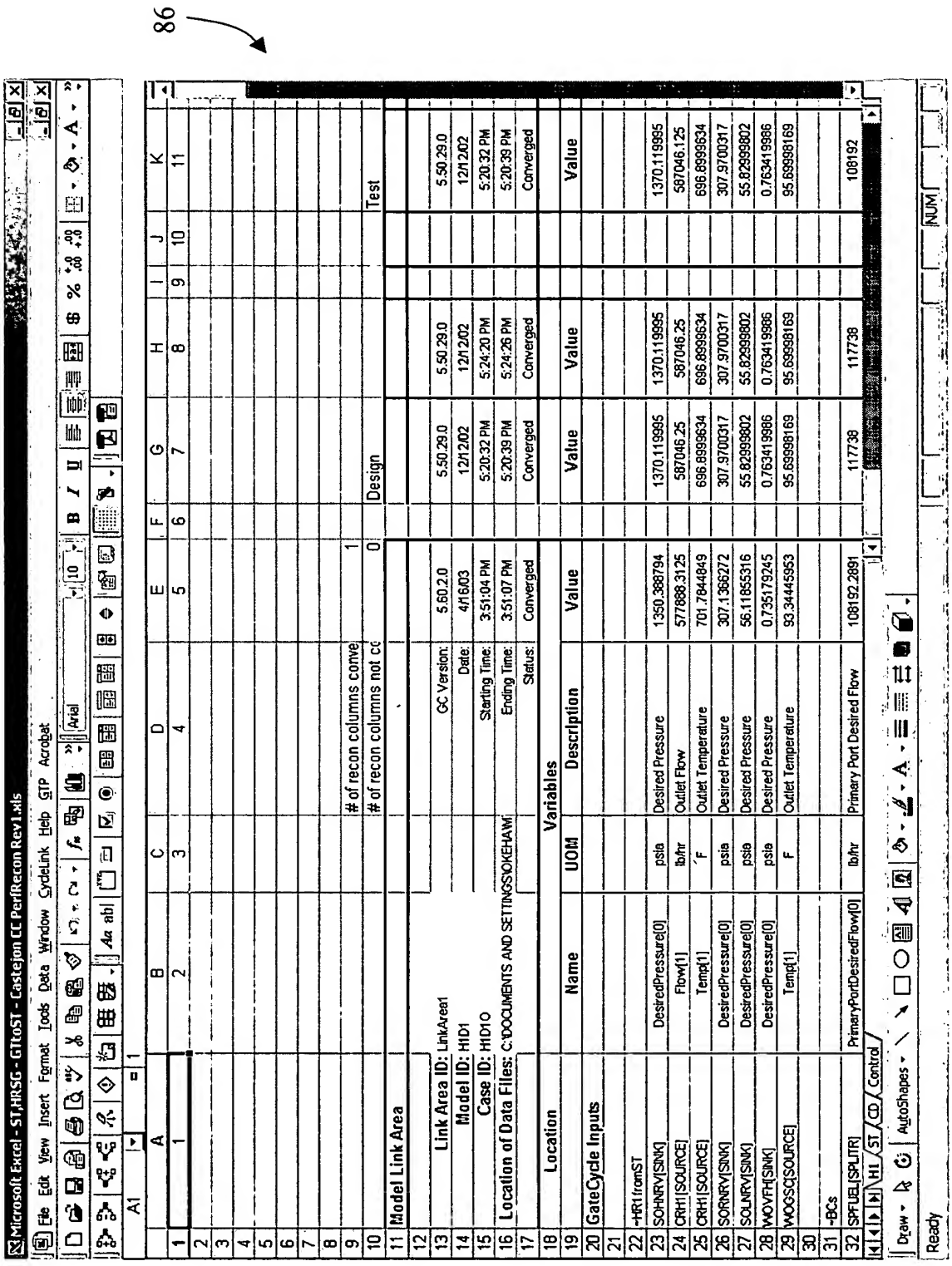
86
Microsoft Excel - ST_HRSG - GTtoST - Castejon CC PerfRecon Rev1.xls
File Edit View Insert Format Tools Data Window CycleLink Help GTP Acrobat
Location of Data Files: C:\DOCUMENTS AND SETTINGS\OKEHAM\
Variables
Location
Name
UOM
Description
Value
GateCycle Inputs
Model Link Area
Link Area ID: LinkArea1
Model ID: H1D1
Case ID: H1D10
GC Version: 5.60.2.0
Date: 4/16/03
Starting Time: 3:51:04 PM
Ending Time: 3:51:07 PM
Status: Converged
# of recon columns conve 1
# of recon columns not cc 0
Design
Test
Converged
Ready

FIG. 9

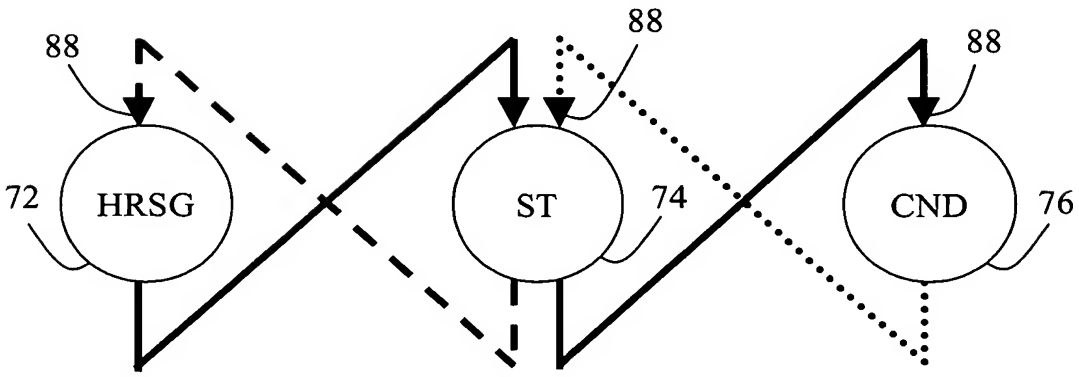
88
88
88
72
HRSG
ST
74
CND
76

FIG. 10

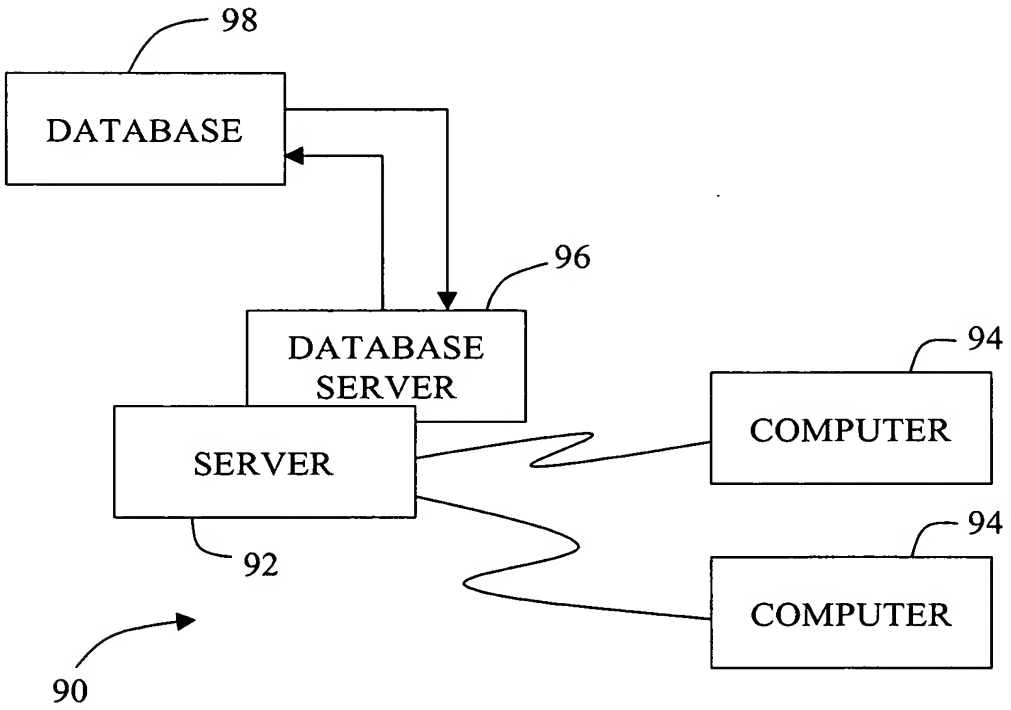
98
DATABASE
96
DATABASE SERVER
94
COMPUTER
SERVER
92
94
COMPUTER
90

FIG. 11